

FOR THE MOST SAFE BATTERY



台塑電池
FORMOSA BATTERY



台塑生醫科技股份有限公司
FORMOSA BIOMEDICAL TECHNOLOGY CORP.



CELL	BATTERY PACK	FACTORY
● UN 38.3	● UN 38.3	
● UL 1642		
● UL 1973E	● UL 1973	● ISO 9001:2015
● IEC 62133		
● IEC 62619	● IEC 62619	

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商品索引 Product Overview

可靠技術、組織系統、簡單安全、智慧平衡
Trustworthy | Systematic | Safe | Intelligent

標稱參數 Nominal Characteristics

除非另行說明，本產品規格中所有測試數據皆在室溫下進行(25 °C±2 °C)

Unless specified, all tests stated in this product specification are conducted at room temperature.(defined as 25 °C±2 °C)

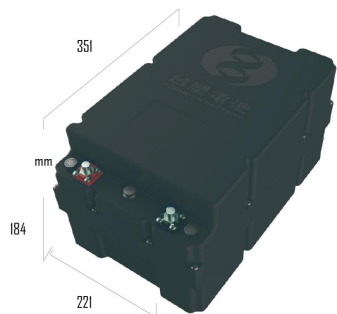
Battery Pack for

UPS

DC Charger

24V / 54Ah | 48V / 27Ah

L W H
351 * 221 * 184 ±1mm



Utility and Commercial ESS

48V / 54Ah

L W H
611.5 * 221 * 184 ±1mm



Residential Storage

L W H
222 * 550 * 1100 ±15mm



項目 ITEM	24V	48V	
額定容量/1C Discharge NOMINAL CAPACITY	54AH	27AH	54AH
額定電壓/3.2V RATED VOLTAGE	26.4V	52.8V	52.8V
最大電壓/3.55V MAXIMUM VOLTAGE	28.4V	56.8V	56.8V
最終放電電壓/2.5V END OF DISCHARGING VOLTAGE	20.0V	40.0V	40.0V
充電模式 CHARGING METHOD	CC-CV	CC-CV	CC-CV
充電電壓/3.55V CHARGING VOLTAGE	28.4V	56.8V	56.8V
標稱充電電流 STANDARD CHARGING CURRENT	10.8A(0.2C)	5.4A(0.2C)	10.8A(0.2C)
連續放電 CONTINUOUS DISCHARGING	108A(2C)	54A(2C)	108A(2C)
操作溫度 OPERATION TEMPERATURE	MIN -10 °C -30 °C	MAX 55 °C	55 °C
儲存溫度 STORAGE TEMPERATURE	MIN -20 °C	MAX 55 °C	55 °C

CHARGE
DISCHARGE

SHOULD BE
RECHARGED EVERY
180 DAYS

電壓 / Voltage	容量 / Capacity	30						60						120						180						240						480					
		- AH -		MIN		MIN		MIN		MIN		MIN		MIN		MIN		MIN		MIN		MIN		MIN		MIN		MIN									
24V	54	A	108	54	27	18	13.5	6.75	W	2,454	1,227	613	409	306.5	153																						
	27	A	54	27	13.5	9	6.75	3.375	W	2,454	1,227	613	409	306.5	153																						
48V	54	A	108	54	27	18	13.5	6.75	W	4,908	2,454	1227	818	613.5	306.75																						

放電規格表-截止電壓2.84V
FORM OF DISCHARGE RATE

電池特性因使用與應用而有所不同，
超規使用將性能將大幅下降。
以上放電訊息僅供參考，不具任何特性保證。

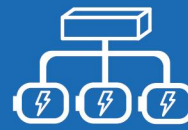
Performance may differ depending on,
but it is not limited to cell usage and application.
If cell is used out of specification, performance will decrease.
The information shown here is for reference only
and does not constitute a guarantee of performance.

電芯一致性 Cell Equalization

全系統動態智慧平衡 AIOT Concept

可以修正電芯製作過程中的細微電氣差異，並補償充電直流阻抗的時間衰變，除了延長電池系統安全使用壽命，並可合理擴大電池可操作範圍，提升電池系統穩定性。

Not only compensates the age-effect of charge-resistance variation, but also enlarges the safe range of cell-voltage and temperature. Therefore, those characteristics are able to improve the reliability and usage life of the battery system.



分層架構管理
HIERARCHICAL BMS



智慧平衡系統
SMART BALANCE SYSTEM



子系統互相備援
AUTO RECOVERY REDUNDANCY



雙重保護
DOUBLE PROTECTION

BMS功能 BMS Feature

保護板架構符合IEC | UL60730認證 Passed IEC | UL60730 Certification

擁有智慧平衡演算、二階隔離控制系統、子系統可相互備援，自動復歸、多重隔離高安全電源與遠端控制系統、可進行高精準非接觸的安時量測計算。

Accomplish Smart-Balance Algorithm, Multi-Levels Isolation System, Auto Recovery Redundancy, Functional Safety, Remote control system.

特色實績 Field Application Record



Since 2010, 5

台塑企業UPS
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